

FIG. 1 - Prior Art

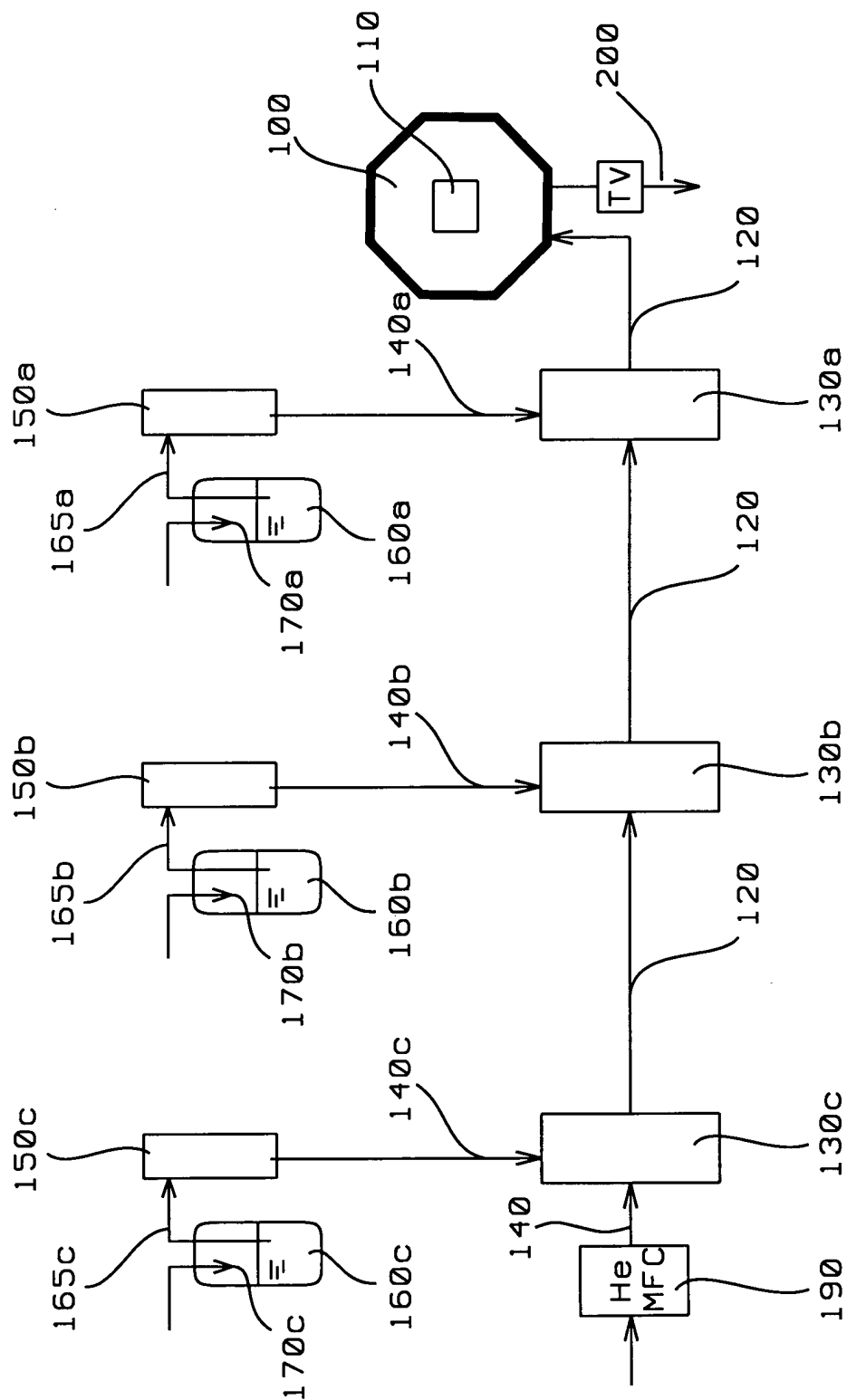


FIG. 2

TABLE I

He 800; TV=fully open SCCM		
TEOS Flow (mgm)	CHA Pressure (torr)	CHB Pressure (torr)
900	0.468	0.487
850	0.468	0.483
800	0.462	0.481
750	0.459	0.477
700	0.456	0.474
650	0.456	0.471
600	0.453	0.468
550	0.449	0.468
500	0.449	0.466

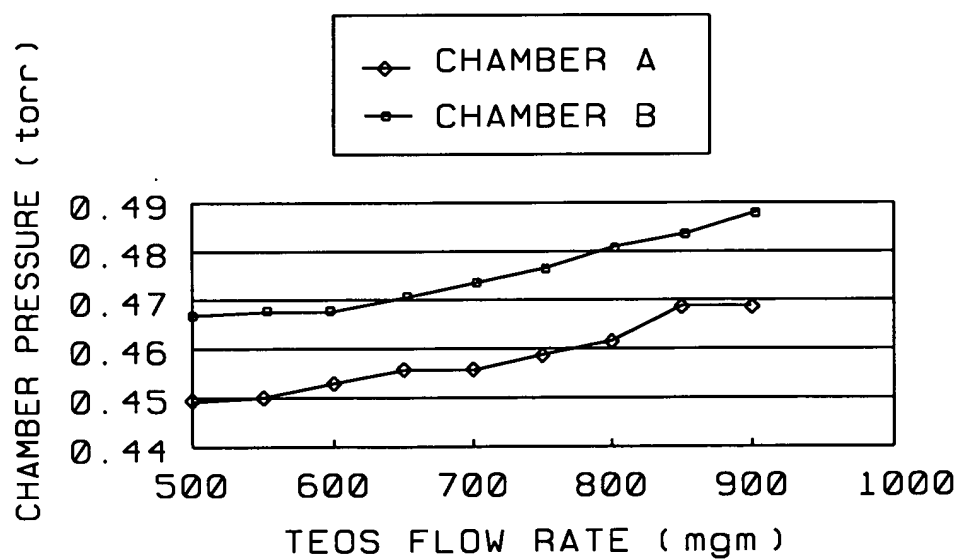
FIG. 3a*FIG. 3b*

TABLE II

He 800; TV = self sccm calibration		
TEOS Flow (mgm)	CHA Pressure (torr)	CHB Pressure (torr)
900	7.54	7.52
850	7.41	7.34
800	7.23	7.2
750	6.95	6.9
700	6.67	6.54
650	6.42	6.33
600	6.17	6.06
550	5.88	5.8
500	5.59	5.49

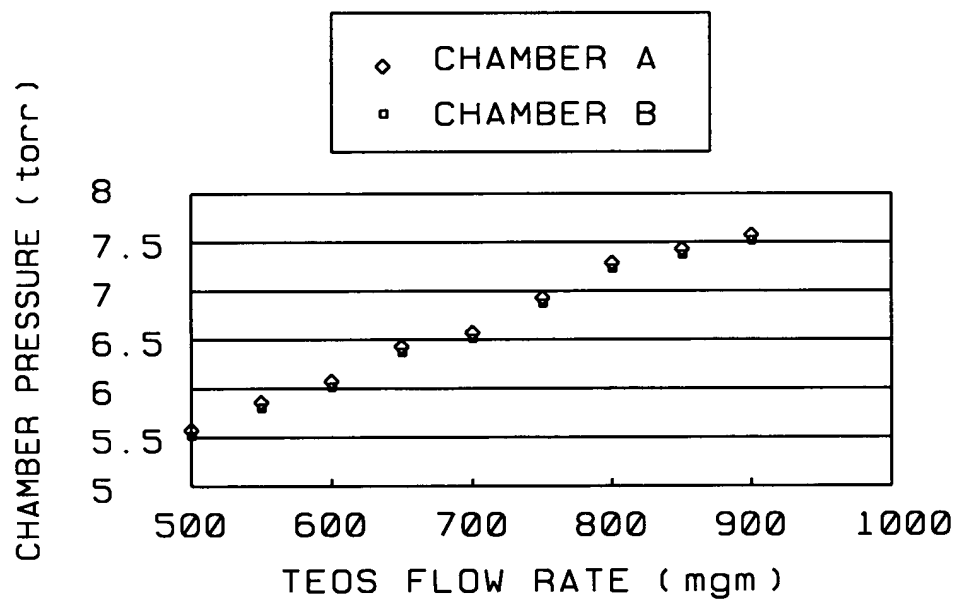
FIG. 4a*FIG. 4b*

TABLE III

STEP	1. self cal	2. TV stable	3. TEOS stable	4. vapor- ization	5. stop TEOS	6. pump
CHAMBER SEL	A,B,C,D...	A,B,C,D...	A,B,C,D...	A,B,C,D...	A,B,C,D...	A,B,C,D...
STEP. CONTROL	by time	by time	by time	by pressure >7 torr	by time	by time
STEP TIME(SEC). MAX	10.0	5.0	8.0	5.0	2.0	10.0
ENDPOINT. SELECT	no EP	no EP	no EP	no EP	no EP	no EP
PRESSURE. torr	3.0 torr	TV: as before	TV: as before	TV: as before	TV: full open	TV: full open
RF POWER. RF2 POWER(W)	0.0	0.0	0.0	0.0	0.0	0.0
HEATER TEMP. deg C	400	400	400	400	400	400
GAS NAME & FLOW (sccm)	He, 800 sccm	He, 800 sccm	He, 800 sccm TEOS. 900 mgm	He, 800 sccm TEOS. 900 mgm	He, 800 sccm	- - -
HEATER SPACING	290 mils	290 mils	290 mils	290 mils	290 mils	290 mils

FIG. 5